

SHAKHNAROV, Arman Arutyunovich; QEYMAN, M.A., red.; PETROVA, Ye.A.,
ved.red.; MEDOTOVA, I.G., tekhn.red.

[Cementing of the bottom hole area] Kreplenie prizaboinoi zony
skvazhin. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-
toplivnoi lit-ry, 1959. 83 p. (MIRA 12:7)
(Oil well cementing)

KARAPETOV, Karo Ambartsumovich; MELIKBEKOV, Adshar Sultanovich;
PETROVA, Ye.A., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Hydraulic fracture of the stratum; experience of petroleum
workers of Azerbaijan] Gidravlicheskii razryv plasta; opyt
neftianikov Azerbaidzhana. Moskva, Gos.nauchno-tekhn.izd-vo
neft. i gorno-toplivnoi lit-ry, 1959. 69 p. (MIRA 12:7)
(Oil wells--Hydraulic fracture)

GRIGOR'YEV, Vitaliy Ivanovich; SIDOROV, Nikolay Aleksandrovich; SHISHCHENKO,
R.I., prof., doktor tekhn.nauk, red.; PETROVA, Ye.A., inzh., vedushchiy
red.; POLOSINA, A.S., tekhn.red.

[Controlling deflection of well shafts in turbodrilling] Bor'ba
s iskrivleniem stvolov skvazhin v turbinnom burenii. Pod red.R.I.
Shishchenko. Moskva, Gos. nizuchno-tekhn. izd-vo neft.i gorno-toplivnoi
lit-ry, 1957. 87 p.
(Turbodrills) (Oil well drilling)

Call Nr: AF 1154274

AUTHORS: Faniyev, R. D., Mushin, A. Z.

TITLE: New Developments in the Technology and Technique of Oil Production (Novoye v tekhnologii i tekhnike dobychi nefti)

PUB.DATA: Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo neftyanoy i gorno-toplivnoy literatury, Moscow, 1958, 100 pp., 3,000 copies

ORIG.AGENCY: None given

EDITOR: Petrova, Ye.A.; Tech.Ed.: Polosina, A. S.; Corrector: Mukhina, Ye.V.

PURPOSE: This book is intended for the general use of oil field workers.

COVERAGE: The authors discuss oil production problems for the Sixth Five-Year-Plan and the introduction of new methods of developing oil fields involving artificial main-

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Call Nr AF 1154274

New Developments in the Technology and Technique (Cont.)

tenance of pressure, hydraulic fracturing, chemical treatment of oil-bearing formations, etc. Automation, mechanization and dispatching are also discussed. The following personalities are mentioned in the text:

A. M. Grigoryan (VNIIburneft'), K. I. Kovalenko (Bashneft'), Ashkirov and Gubanov (Giprovostokneft'), V. A. Shpak (contrib. in 1934), Yu. M. Kolodyazhnyy (designer of a torpedo perforator), Minin, Chefranov and Pogarskiy (inventors of pipeless hydraulic drill), F. G. Baronyan and S. A. Vezirov (engineers). Facilities mentioned include: Giproazneft', Giprospetsneft', OKB, Institut Nefti AN SSSR, Moscow Oil Institute im. akad. I. M. Gubkin, AzNII ND, VNII, LenNII, GrozNII, Vodgeo, UkrVNIGNI, UfNII, IAT AN SSSR, NIL, TsNIL, KB NP, TsNIITEneft', VNIIGeofizika, TsNIL Azneftegeofizika, Azinmash, Giproneftemash, and Soyuzgeoneftepridor.

There are no references.

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AVAILABLE: Library of Congress

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DUKHIN, Aleksey Pavlovich, dotsent [deceased]; SOLOV'YEV, Yevgeniy Matveyevich, dotsent. Prinimal uchastiyu: BORISENKO, L.V., kand.tekhn.nauk. TIMOFEEV, N.S., inzh., retsenzent; PETROVA, Ye.A., vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

[Drilling oil and gas wells] Burenie neftianykh gazovykh skvazhin. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 495 p. (MIRA 12:11)
(Oil well drilling)

PETROV, Andrey Ivanovich; DROBAKH, Viktor Terent'yevich; PETROVA, Ye.A.,
vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Measuring pressures and fluid and gas losses in oil fields]
Izmereniia davlenii i raskhodov zhidkosti i gaza na neftianykh
promyslakh. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-
toplivnoi lit-ry, 1959. 178 p. (MIRA 13:1)
(Oil fields--Production methods)

GOVOROVA, Galina Leonidovna; BORISOV, Yu.P., kand.tekhn.nauk, retserzent;
PETROVA, Ye.A., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Problems on the production of oil and gas fields] Sbornik
zadach po razrabotke neftisnykh i gazonvkh mestorozhdenii.
Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry,
1959. 242 p. (MIRA 13:1)
(Oil fields--Production methods)

YENIKEYEV, Vadim Rakhmeyevich; PETROVA, Ye.A., vedushchiy red.;
MUKHINA, E.A., tekhn.red.

[Automatic scrapers for dewaxing hoisting pipes] Avtoma-
ticheskie skrebki dlia ochistki podzemnykh trub ot parafina.
Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry.
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RAVASH, G.[RAVAS, GH.],; LEBEDEV, M.Ya., KARYAGIN, I.D., kand.
ekon. nauk. red.; PETROVA, Ye.A., ved. red.; POLOGINA, A.S., tekhn. red.

[History of the Romanian petroleum industry] Iz istorii rumyanskoi
nefti. Pod red. I.D.Karyagina. Moskva, Gos. nauchno-tekhn. izd-vo
neft. i gorno-teplivnoi lit-ry, 1958. 240 s. (MIRA 11:13)
(Romania--Petroleum industry)

INOCHKIN, Petr Trofimovich; PROKSHITS, Viktor Leont'yevich; PETROVA, Ye.A.,
vedushchiy red.; FEDOTOVA, I.G., tekhn. red.

[Manual of the master driller] Spravochnik burovogo mastera. Moskva,
Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1958.
378 p. (MIRA 11:10)
(Oil well drilling)

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ALIYEV, Teymur Mowsum Ogly, MIRZOYAN, Serzey Semenovich, ARENSEN, R.I.,
retsenzent, redakteur LAVRUSHKO, P.N., retsenzent, KORJEV, M.I.,
redaktor PETROVA, Ye.A., veduschiy redaktor TROFIMOV, A.V.,
tekhnicheskiy redaktor

[Machines and mechanical devices for petroleum production] Mashiny
i mekhanizmy ilia delyachii naftu. Moskva, Gos. nauchno-tekhn. izd-vo
naft. i gorno-trebovaniy lit-ry, 1971, vol. p. (MIRA 1971)
(Petroleum industry - Equipment and supplies)

BAKIROV, Abdulkhalat Abdullatynovich; PETROVA, Ya. A., vedushchiy redaktor;
MUKHINA, E.A., tekhnicheskiy redaktor

[Geology of areas possessing petroleum and natural gas, and oil
fields in the middle and Near East] Geologiya neftegazonosnykh
oblastei i neftianye mestorozhdeniya Srednego i Blizhnego Vostoka.
Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry,
1957. 101 p. (MLRA 10:6)
(Near East--Petroleum geology)

PETROVSKYIY

YUROVSKIY, Yuriy Mikhaylovich; PETROVA, Ye. A., inzhener, vedushchiy
redaktor; MUKHINA, E.A., tekhnicheskiy redaktor

[Gas analysis method of oil and gas well logging] Gazovyj karottazh
ekvazhin. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi
lit-ry, 1957. 157 p.
(Oil well logging)

(MLRA 10:7)

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SUSLENNIKOV, Nikolay Mikhaylovich; SYROMYATNIKOV, Yevgeniy Sergeyevich;
~~PETROVA, Nadezhda~~, vedushchiy redaktor; KHLIEBNIKOVA, L.A..
tekhnicheskiy redaktor

[Practical instruction in progressive methods of boring; work
practices of instructors at the Kuybyshev Petroleum Trust
enterprises] Proizvodstvennoe obuchenie peredovym metodam burenija;
opyt raboty instruktorskikh vakht na predpriatiakh ob"edineniiia
Kuibyshevneft'. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-
toplivnoi lit-ry, 1957. 63 p.

(MLRA 10:5)

(Oil well drilling)

PETROVA, Ye. A.

KOVALEV, Aleksandr Georgiyevich; GEYMAN, M.A., redaktor; PETROVA, Ye.A.
vedushchiy redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

[Flooding of oil fields in the United States] Zavodnenie neftianykh
plastov v SSSR. Moskva, Gos. nauchno-tekhn. izd-vo neft. i
gorno-toplivnoi lit-ry, 1957. 109 p. (MLRA 10:5)
(United States--Oil field flooding)

UMANSKIY, Moisey Mikhaylovich; BRODKE, I.M., redaktor; PETROVA, Ya.A.
vedushchiy redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

[Ways of reducing the cost of petroleum production] Puti snizheniya
sebestoimosti dobychi nefti. Moskva, Gos. nauchno-tekhn. izd-vo
neft. i gorno-toplivnoi lit-ry, 1957. 101 p. (MLRA 10:5)
(Petroleum industry--Costs)

IL'SKIY, Aleksandr Loneinovich; KOS'YANOV, V.M., kandidat tekhnicheskikh
nauk, retsenzent; ANDREYEV, M.M., dotsent, retsenzent; ~~ZEMPOVA,~~
~~Ye.A., inzhener, vedushchiy redaktor; POLOSINA, A.S., tekhniches-~~
~~skiy redaktor~~

[Calculation and construction of boring equipment] Raschet i
konstruirovaniye burovogo oborudovaniya. Moskva, Gos. nauchno-tekhn.
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ZUSMAN, M.N.; PODOBEDOV, M.S.; PETROVA, Ye.A.; YAKUBENKO, Z.I.

Intensifying tarpaulin duck impregnation and dyeing processes.
Tekst.prom. 15 no.12:43-46 D '55. (MLRA 9:3)
(Duck (Textile)) (Dyes and dyeing)

BARSHAY, Georgiy Sergeyevich; BUYANOVSKIY, Naum Il'ich; GEL'FAGAT, Ya. A..
redaktor; PETROVA, Ye. A., vedushchiy redaktor; POLOSINA, A. S.,
tekhnicheskly redaktor

[The technique of rapid turbodrilling] Tekhnika skorostnogo
turbinnogo burenija. Moskva, Gos.nauchno-tekh. izd-vo neftianoi
i gorno-toplivnoi lit-ry, 1956. 333 p. (MIRA 9:8)
(Turbodrills)

FACT

TVOROGOVA; BADAMIAN; KURNOSOV, M.A.; ZAGATIN, M.P.; RHYTMAN, I.M., redaktor;
PETROVA, Ye.A., redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

[Catalog of spare parts for petroleum equipment] Katalog zapasnye k
neftianomu oborudovaniyu. Moskva, Gos.nauchno-tekhniko-izd-vo neftia-
noi i gorno-toplivnoi lit-ry. Pt.2.[Equipment for drilling wells.
Section 1. Drill winches. No.2. Four-speed drill winch, model Ll-4M2]
Oborudovanie dlia burenija skvazhin. Section 1. Lebedki burovye.
No.2. Lebedka chetyrekhskorostnaja Ll-4M2. 1955. 33 p. Pt.3. [Equip-
ment for operating wells. Section 2. Deep well non-insert (pipe)
pumps. No.4. NGN2-56. Section 3. Deep well insert pumps. No.5.NGN3-
56 3"-1800 (NGB1-56)] Oborudovanie dlia ekspluatatsii skvazhin.
Section 2. Nasosy glubinnye nevstavye (trubnye). No.4. NGN2-56.
1955.15 p. Section 3 Nasosy glubinnye vstavye. No.5. NGN3-56 "3-
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1. Soyuznefteburnashremont, Gosudarvennyy soyuznyy trest.
(Oil well pumps) (Petroleum industry--Equipment and supplies)

KOROTAYEV, Yuriy Pavlovich; POLYANSKIY, Aleksandr Petrovich; PETROVA, Ye.A.,
ved. red.; POLOSINA, A.S., tekhn. red.

[Exploitation of gas wells] Ekspluatatsiya gazovykh skvazhin;
prakticheskoe rukovodstvo. 2., dop. i perer. izd. Moskva, Gos.
nauchno-tekhn. izd-vo neft. i gornogo-toplivnoi lit-ry, 1961. 382 p.
(MIRA 14-11)

(Gas wells)

BLINOVSKIY, A.A.; BUSLOVA, N.A.; YEROKHOV, N.F.; IVANOV, K.A.; KITAYEVA,
G.V.; LEYBOSHTS, L.M.; NEDELYAYEV, I.A.; PALLADIYEVA, M.V.;
PEVZNER, L.M.; PETROVA, Ye.D.; ROGOVSKIY, N.M.; RUDNYY, M.M.;
SMIRNOV, B.P.; DENISOVA, I.S., red.; RAKOV, S.I., tekhn.red.

[Through our land; tourist sites and itineraries of the Moscow
Interprovince Tour Administration of the All-Union Central
Council of Trade Unions] Po rodnoi zemle; turistskie bazy i
marshruty Moskovskogo mezhoblastnogo turistsko-eksкурсионного
upravleniya VTsSPS. Moskva, Izd-vo VTsSPS Profizdat, 1959.
154 p. (MIRA 13:4)

1. Moskovskoye mezhoblastnoye turistsko-eksкурсионnoye upravleniye
Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for all, except
Denisova, Rakov).
(Tourism) (Steamboat lines)

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PETROVA, Y. F.: Modernization of Soil ("Soil") - its effect on biological activity
on the thermodynamic activity of carbon mainly in soil. Sov. Soil, 1979,
L. p. (Main Admin. of Soil) and Soil Commissions of the Academy of Sciences,
Central Soil Inst. of P. V. D. M. Institute, Inst. "Biology of Soil and
of Materials", All-Union NKL, N. T., 1979.

18(3)

AUTHORS: Petrova, Ye. F., Lapsina, M. I., Savartseman, I. A.

SCV, Ge-1, 1-1

TITLE: The Solubility of Carbon in Alpha-Iron (Rastv rastvor karbona v al'fa-železe)

PERIODICAL: Doklady Akademii nauk SSSR, 1966, Vol 161, Tr. 1, pp 101-104
(USSR)

ABSTRACT: The authors developed a thermodynamical method for the immediate determination of the concentration of carbon in the solid solution. By combination with other data, the solubility of carbon in ferrite (in the equilibrium with cementite at low temperatures and also in equilibrium with γ -iron at higher temperatures) was calculated. The method investigated in this paper is characterized by the fact that the content of carbon in the iron may be determined without a chemical analysis. The carrying out of the measurements and the measuring apparatus are discussed in short. These experiments have a linear dependence of

$$r = \frac{P_{CO}}{P_{CO_2}} \text{ on } [\% C] \quad \text{where } P_{CO} \text{ and } P_{CO_2} \text{ denote the partial}$$

Card 1,3 pressures of CO and CO_2 in the equilibrium and [% C] denotes

The Solubility of Carbon in Alpha-Iron

S.V./Co-121-7-1-2

the content of carbon in iron (percent weight) before the equilibrium constant $K_\alpha = P_{CO} / [C]_\alpha$ does not depend on the concentration of carbon. K_α was measured in

the temperature interval 700 - 990°. In a diagram (Fig. 1), the results of these measurements are given in the coordinates $\lg K_\alpha$ and $(1/T)$. The experimental points agree well with a straight line which satisfies the equation $\lg K_\alpha = -(3040/T) + 5,15$. Therefore, the reaction $C + CO_2 \rightleftharpoons 2CO$ has a negative

Joule effect, the value of which amounts to 14820 cal./mol. The above-discussed results may be used for the determination of the boundaries of the α -phase in the iron-carbon system. First, the manner of determining the solubility of carbon below eutectoid temperature is discussed. After some steps, the following expression is found for the solubility of carbon in α -iron: $\lg [\% C]_\alpha^H = -(4509/T) + 2,25 \cdot 10^{-4} T + 5,15$.

The results of the calculations carried out by means of this equation are given in a table. According to these results, the solubility of carbon in α -iron at the eutectoid temperature is very similar to 0,030 weight %. In other diagrams now

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The Solubility of Carbon in Alpha-Iron

Soviet Science

the data concerning the solubility of carbon, found by measuring internal friction. Also these results agree satisfactorily with the generally accepted values. The results obtained with respect to the solubility of carbon seem to be more reliable than those found by the method of internal friction. The results of this investigation may be used for the calculation of the concentrations of carbon in α -iron in equilibrium with austenite at temperatures above eutectoid temperature. There are 3 figures, 1 table, and 2 references, 1 of which is Soviet.

ASSOCIATION: Institut metallovedeniya i fiziki metallov Tsentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii
(Institute of Metallurgy and Physics of Metals of the Central Scientific Research Institute of Ferrous Metallurgy)

PRESENTED: April 24, 1958, by G. V. Kurdyumov, Academician

SUBMITTED: April 21, 1958

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PETROVA, YE. F.

PHASIS I BOOK EXPLOITATION SOV/2117

Sovetianskaya po eksperimentam 'noy' tekhnike i metodam issledovaniya -
turnykh issledovanii, 1956

Sto perevodchika i metoda issledovaniya priysokikh tem-
peraturakh/ trudy soveshchaniya [Experimenta]l'nykh tekhniques i
Metodov of Investigation at High Temperatures/ Techniques and Methods of Investigation
at High Temperature) Moscow, Akademiya Nauk SSSR, 1959. 189 p. (Series:
Khimicheskii ogranichennyi sbornik po fiziko-
khimicheskim ocherednym prolyivochetv stali) 2,200 copies printed.

Resp. Ed.: A.M. Sazanin; Corresponding Member: A.L. Banovtsev.
Sciences; Ed. of Publishing House: A.L. Banovtsev.

PURPOSE: This book is intended for metallurgists and metallurgical
engineers.

COVERAGE: This collection of scientific papers is divided into six
parts: 1) thermodynamic activity and kinetics of high-temperature
processes; 2) constitution diagrams studies; 3) physical properties
of liquid metals and alloys; 4) new analytical methods and pro-
duction of pure metals; 5) pyrometry, and 6) general questions.
For more specific coverage, see Table of Contents.

TABLE OF CONTENTS:

I. DETERMINATION OF THERMODYNAMIC ACTIVITY AND
METHODS OF INVESTIGATING THE KINETICS OF HIGH-
TEMPERATURE PROCESSES

Gel'd, P.V. Methods of Investigating the Kinetics and
Equilibrium Characteristics of Certain Heterogeneous Reactions 5
The kinetics are investigated by: 1) studying the change
in weight or condensed reagent with time; 2) studying
changes in pressure and volume of gas and 3) other methods
(thermographic, dilatometric, electrical, and magnetic).
Equilibrium is investigated by: 1) static method (gas-
sest method); 2) circulation method, study of variation of
condensed phases, and contraction method; 3) variation of
methods (jet method, control of pressure, thermal methods,
and study of vaporization rate).

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Shvartsman, L.A. Method of Determining Thermodynamic Activity
in Metallic Solutions 54
Thermodynamic activity was determined on the basis of the
following: measurement of vapor pressure, refractory-
plate solubility data, data on chemical equilibrium
of solutions in the presence of gaseous mixtures,
measurement of the electromotive force of voltaic cells,
and data on the distribution of two liquid phases.

Petrova, Ye.F., and L.A. Shvartsman. Effect of Alloying
Elements on the Thermodynamic Activity of Carbon in Gamma Iron 73
A method was developed for determining the thermodynamic
activity of carbon in solid solutions. Data were obtained
on the effect of additions of manganese, chrome
and titanium on the activity of carbon in gamma iron. All
these elements markedly decrease the activity of carbon in
comparison with nonalloyed austenite. This indicates that
the bond strength of carbon dissolved in gamma iron is
considerably increased upon introduction of carbide-forming
elements into solid solution. The strongest effect on
the activity of carbon, determined by the position of the
investigated elements in the periodic table, was produced by
titanium, and the weakest by manganese. The quantitative
difference in the effect of titanium, vanadium, and chrome
is small and approaches the accuracy of the measurements.

S/137/62/000/005/005/150
A006/A101

AUTHORS: Petrova, Ye. F., Shvartsman, L. A.

TITLE: The effect of alloying elements upon the thermodynamic activity of carbon in gamma-iron

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1960, 9, abstract DASH ("Sb. tr. In-t metalloved. i fiz. metallov Tsentr. n.-i. In-ta chernoy metallurgii", 1959, v. 6, 259-292)

TEXT: To determine the C content in γ -Fe directly during the experiment without removing the specimen from the unit, the circulation method was employed that had been developed by M. I. Temkin and his collaborators ("Zh. fiz. khim.", 1949, v. 23, 695). The equilibrium of the reaction C (dissolved in Fe) + CO_2 = $2CO$, was attained as a result of pure CO circulation in a closed, preliminarily evacuated circuit, into which a carbonfree Fe sample was placed at constant controlled temperature. After the equilibrium had been attained, CO , was frozen out, CO was evacuated and partial CO_2 pressure was determined by measurement with the Mac-Leod manometer. The weight of C dissolved in the Fe-specimen was determined from the amount of CO_2 . Greater CO pressures were measured with the

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S/137/62/000/005/005/150
4006/A101

The effect of alloying elements ...

aid of a conventional U-shaped manometer with microscopical reading of the mercury column level. The experiments were carried out with small batches of Fe-foil, 0.08 - 0.05 mm thick, so that the time for attaining the reaction equilibrium could be considerably reduced (to 6 - 7 hours). A schematic drawing and a detailed description of the unit are given. Results on the temperature dependence of equilibrium constant K for pure Fe are in a satisfactory agreement with Smith's data (Smith, R., "Amer. Chem. Soc", 1946, v. 68, no. 7, 1163). For Fe alloys with 3% Mn (0.112% C) 1 or 0.28% Cr (0.0265% C), 0.45% V (0.042% C), 0.70% Ti (0.024% C), investigated at 930 - 1,080°C, dependences $\lg K^{\text{Me}}$ versus $1/T$ and the coefficients of C activity were found, equal to 0.58, 0.55, 0.86 and 0.55 respectively. All the elements investigated reduce noticeably the thermodynamical activity of C in the austenite. The dependence of the coefficient of C activity on the concentration of the alloying elements is relatively low, and apparently of a logarithmic nature. There are 27 references.

I. Levtonov

[Abstracter's note: Complete translation]

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E073/E535

Influence of Alloying Elements on the Thermodynamic Activity and
the Solubility of Carbon in α -iron

admixtures. In this case the equilibrium constant of the reaction $C + CO_2 = 2CO$ does not depend on the carbon concentration in the metal. Equations are derived governing the solubility of carbon in alloys of α -iron with cobalt. Eqs (12)-(14). By means of these equations, the solubility values were calculated for three alloys with various cobalt contents as a function of the temperature and these are plotted in Fig 1, for comparison the solubility curve for pure ferrite is also plotted in this figure. The presence of manganese in α -iron reduces the activity of the carbon and consequently the solubility should increase. Assuming that the iron carbide, which is rejected in the studied alloys, does not contain manganese, the solubility of carbon in these alloys can be calculated in the same way as was done for the Fe-Co system; the resulting equations are Eqs (18) and (19). It can be

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S/129/60/000/04/004/020
E073/E535

Influence of Alloying Elements on the Thermodynamic Activity and the Solubility of Carbon in α -iron

seen that the addition of manganese to the α -iron increases its solubility of carbon. Results calculated on the basis of Eq (18) are graphed in Fig 2 (variation of the solubility of carbon in Fe-Mn alloys as a function of the temperature for various manganese contents). The influence of silicon and chromium on the behaviour of carbon in α -iron was investigated by determining the respective activity coefficients. The results obtained by the authors indicate that cobalt increases the activity of carbon in the α -iron and this is also the case for silicon. However, carbide forming elements of the transition group Mn and Cr, which interact with iron only slightly, bring about a reduction in the activity of carbon in the α -iron. In earlier work (1) the same qualitative results were obtained on the influence of carbide-forming elements on the activity of carbon in α -iron.

Car = 1/4 of carbon in α -iron

80196

S/129/60/000/04/004/020
E073/E535

Influence of Alloying Elements on the Thermodynamic Activity and
the Solubility of Carbon in α-iron

There are 3 figures and 2 references, 1 of which is
Soviet and 1 English.

ASSOCIATIONS: Tsentral'nyy nauchno-issledovatel'skiy institut
chernoy metallurgii (Central Scientific Research Institute
for Ferrous Metallurgy) and Vsesoyuznyy zaochnyy
mashinostroitel'nyy institut (All Union Correspondence
Mechanical Engineering Institute)

Card 4/4

VIROVTSЯ, A.M., prof.; MAUYERER, V.G., inzh.; TROITSKIY, B.V., inzh.; IVANOV, V.F., inzh.; PETROVA, Ye.F., inzh.; BARVENKO, Ye.I., inzh.; SHISHKIN, V.N., Inzh.

[Tables of Gauss-Kruger coordinates for latitudes 32° - 80° at $5'$ intervals and for longitudes 0° - 6° at $7\frac{1}{2}'$ intervals and tables of side and area dimensions of trapezoids in topographic surveys; Krasovskii's ellipsoid] Tablitsy koordinat Gaussa-Kriugera dlja shirct ot 32° do 80° cherez $5'$ i dlja dolgot ot 0° do 6° cherez $7\frac{1}{2}'$ i tablitsy razmerov ramok i ploshchadej trapetsii topograficheskikh s"emok ellipsoid Krasovskogo. 2. izd., ispr. i dop. Moskva, Izd-vo geodez. lit-ry, 1961. 512 p. (MGA 15:9)

1. Russija (1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.

(Coordinates)

41706
S/032/62/028/011/004/015
B104/B102

AUTHORS:

Petrova, Ye. F., and Shvartseman, L. A.

TITLE:

Determination of carbon activity in solid iron

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 11, 1962, 1334 - 1337

TEXT: A method of determining the thermodynamic activity of carbon in iron by means of C¹⁴ in one experimental operation on several samples is described. The experimental arrangement consists of two parts: In one part of the apparatus an iron specimen containing a certain quantity of carbon tagged with C¹⁴ is placed in a transparent quartz tube to serve as a standard. In the other part, annular samples of pure iron free from cold state and are then annealed at ~10⁻⁵ mm Hg for about 24 hrs; after annealing, the experimental setup (Fig. 1) is filled with hydrogen (300 mm Hg), and the furnace is kept at a certain temperature. The circulation of hydrogen produces methane, the composition of which, after reaching

Card 1/2

S/032/62/028/011/004/015
B104/B102

Determination of carbon activity...

equilibrium, depends only on the temperature of the standard and on the concentration of the carbon contained in it. The composition is characterized by $r = P_{CH_4}/P_{H_2}$, where P_{CH_4}, H_2 are the partial pressures. r can be exactly determined by the method of R. P. Smith (J. Am. Chem. Soc., 68, 7, 1163 (1946)). The equilibrium gas mixture circulates over 10 - 12 iron samples free from carbon, so that carbon diffuses into the samples. After the experiment, the radioactivities of the standard and of the samples are compared whereby the carbon concentration in the samples is accurately determined. This supplies the data needed for finding the thermodynamic activity of carbon in the usual way, based on the reaction $C + 2H_2(g) \rightarrow CH_4(g)$ with the aid of the law of mass action. There are 3 figures and 1 table.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii im. I. P. Bardina (Central Scientific Research Institute of Ferrous Metallurgy imeni I. P. Bardina)

Card 2/3

S/C2C/62/146/003/C17/C19
B101/B144

AUTHORS: Petrova, Ye. F., Shvartsman, L. A.

TITLE: Thermodynamics of solid solutions in the system Fe - Ni - C

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 146, no. 3, 1962, 646-648

TEXT: The results obtained by R. P. Smith (Trans. Met. Soc. AIME, 216, 62 (1960)) stating that the carbon in solid solutions of the system Fe - Ni containing ~75 atom% Ni shows a minimum of solubility at 1000°C were checked. Experiments were performed on an iron-nickel alloy containing 73.5% Ni and on pure nickel, from which the constant $K = \frac{P^2_{CO}}{r^0_{Cu}} \cdot \frac{\%C}{\%C}$ was calculated at 850, 900, 950, 1000, and

1050°C, where $\%C$ is the carbon dissolved in the solid solution in % by weight. It was found for pure nickel: $-RT \ln[\%C] = \Delta G^0 = 970C - 4.95T$, while the following holds for the Fe-Ni alloy: $-RT \ln[\%C] = \Delta G^0 = 8370 - 3.60T$. The heat of solution of carbon in the Fe-Ni alloy is lower than its heat of solution in pure nickel. The decrease in entropy of dissolution of C in the alloy accounts for the decrease in solubility

Card 1/2

S/02G/62/146/003/017/C19
B101/B144

Thermodynamics of solid solutions ...

of C in the alloy. The cause of this decrease in entropy is an ordering of the alloy which renders incorporation of carbon in the lattice more difficult. There is 1 figure. The most important English-language references are: F. Richardson, J. Iron and Steel Inst., 175, 257 (1953); B. Fleischer, J. F. Elliott, The Physical Chem. of Metallic Solutions and Intermetallic Compounds, Nat. Phys. Lab. Symposium, no. 9, 1, paper 2F, London, 1959.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii im. I. P. Bardina (Central Scientific Research Institute of Ferrous Metallurgy imeni I. P. Bardin)

PRESENTED: February 14, 1962, by G. V. Kurdyumov, Academician

SUBMITTED: February 12, 1962

Card 2/2

PETROVA, Ye. F.

"Some data on the mosquitoes and flies of the central part of Oetpak-Dal," Med.

parazitologiya i parazitar. volezni, 1948, No. 6, p. 527-30

SD: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

PETROVA, Ye.F.

Horseflies of the Lower Chu Valley. Trudy Inst.zool. AN Kazakh. SSR.
1:108-111 '53. (MLRA 10:1)
(Chu Valley--Horseflies)

PETROVA, Ye.F.

Materials on the ticks of the family Ixodidae parasitic on farm
animals of the Bet-Pak-Dala pasture complex. Trudy Inst.zool.AN
Kazakh.SSR 3:44-46 '55. (MLRA 9:12)
(Bet--Pak-Dala--Ticks as carriers of disease)
(Parasites--Domestic animals)

RYBAL'KO, S.I.; PETROVA, Ye.F.; PRIKHOD'KO, Ye.T.

Effect of DDT dust and dimethylphthalate in controlling ixodid ticks
in a focal area of tick-borne encephalitis. Med.paraz. i paraz.bol.
(MIRA 12:2)
27 no.6:733 E-D '58.

1. In Respublikanskoy sanitarno-epidemiologicheskoy stantsii Mini-
sterstva zdravookhraneniya Kazakhskoy SSR.
(DDT) (PHTHALIC ACID) (TICKS)

RYBALKO, S. I.; PETROVA, Ye. F.; PRIKHOD'KO, Ye. T.

Epidemiology of tick-borne encephalitis in East Kazakhstan
Province. Trudy Inst.zool. Akad Kazakh.SSR 12:43-53 '60.
(MIRA 13:7)

(East Kazakhstan Province—Encephalitis)
(Ticks as carriers of disease)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610007-0

Mr. [redacted], Dear [redacted]:

[redacted] I am enclosing a copy of the [redacted] which you may want to review. It is a copy of a [redacted] which was sent to [redacted].

[redacted] I am enclosing a copy of the [redacted] which you may want to review. It is a copy of a [redacted]

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610007-0"

RYBALKO, S.I.; PETROVA, Ye.F.; PRIKHOD'KO, Ye.T.

Tick-borne encephalitis in eastern Kazakhstan. Trudy Inst. zool.
AN Kazakh. SSR 19:234-237 '63. (MIRA 16:?)
(Katon-Karagay District—Encephalitis)
(Katon-Karagay District—Ticks as carriers of disease)

PETHOVA, Ye.F.; SHVARTSMAN, L.A.

Thermodynamics of solid solutions in the system Fe - Ni - C.
Dokl. AN SSSR 146 no.3:646-648 S '62. (MIRA 15:10)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii
im. I.P.Bardina. Predstavleno akademikom G.V.Kurdyumovym.
(Iron-nickel-carbon alloys)

PETROVA, Ye.G.

Stock protection and legal size limit for bream (*Abramis brama*
L.) in the Azov-Don Basin. Vop. ikht. 3 no.3:472-476 '63.
(MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo
rybnogo khozyaystva i okeanografii VNIRO, Moskva.
(Azov, Sea of--Bream) (Don River—Bream)

PETROVA, Ye.G.

Electrophysiological characteristics of efferent and afferent
impulses in the augmentor nerve of the heart. Trudy Inst.fiziol.
8:388-394 '59. (MIRA 13:5)

1. Laboratoriya elektrofiziologii (zaveduyushchiy - V.Ye. Delov)
Instituta fiziologii im. I.P. Pavlova AN SSSR.
(HEART-- INNERVATION)

CHUGUNOVA, N.I.; PETROVA, Ye.G.

Adaptive characteristics of the spawning of the Black Sea anchovy (maturation and fertility). Vop. ikht. no.1:68-72 '53. (MLRA 7:6)
(Black Sea--Anchovies) (Anchovies--Black Sea)

PETROVA, Ye.G.

Afferent and efferent impulses in the intensifying nerve of the heart in insufficient coronary blood circulation. Nauch. soob. Inst. fiziolog. AN SSSR no.1:156-157 '59. (MIRA 14:10)

1. Laboratoriya elektrofiziologii (zav. - V.Ye.Dalov) Institute fiziologii imeni Pavlova AN SSSR.
(CORONARY HEART DISEASE) (NERVES, CARDIAC)

PETROVA, Ye.O.

Fecundity and maturation of the Baltic sprat. Trudy VNIRO
42:99-108 '60. (MIRA 13:9)
(Baltic Sea--Sprats)

PSTROVA, Ye.O.

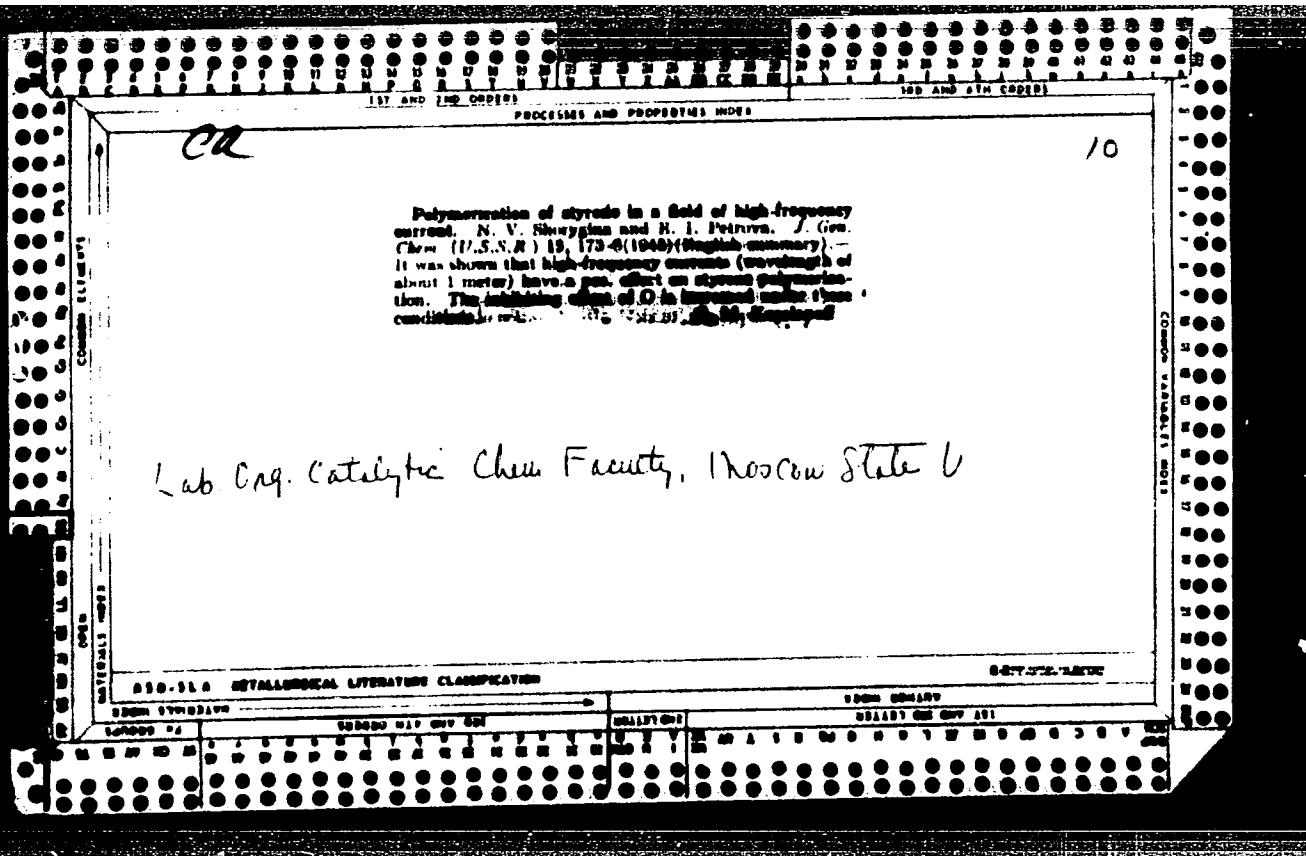
Correlation of unconditioned and conditioned reflexes from the
digestive system on the heart. Trudy Inst. fiziolog. 3:316-322 '54.
(MLRA 8:2)

1. Laboratoriya elektrofisiologii. Zaveduyushchiy V.Ye.Delov.

(HEART, physiology,
eff. of gastrointestinal stimulation)
(GASTROINTESTINAL SYSTEM, physiology,
eff. of stimulation on heart)

NOTKINA, M.A.; FETROVA, Ye.J.; CHERKASHINA, T.V.; CHERNIKHOV, Yu.A.

Concentration of impurities in the analysis of high-melting metals
(titanium, tantalum, niobium, and vanadium). Trudy Kom. anal. khim.
15:80-87 '65. (MIRA 18:7)



PETROVA, YE. I.

"Investigation of the life and activity of K. S. Prunze-on-Dan State University. . . . Doctoral dissertation, 1985
... Prunze, Chair of Chemistry, Birobidzhan, 1985
(Dissertation for the degree of Candidate of Chemical Sciences)

SC: 'Khizhnaya Letopis', n. 1, 1985"

Pe Grova, L.T.

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✓ 3649 Complimentario determination of nickel, magnesium, zinc and manganese in the presence of titanium. B. M. Dobkina and V. I. Petrova. Zavod. Lab., 1966, 12 (5), 526-527. Determination of nickel. The sample (0.5 g of Ti) is dissolved in 50 ml of conc. HCl; a few drops (\approx 10) of conc. HNO₃ are added to destroy the purple colour oxides of N are boiled off and the solution is diluted with dil. HCl (1 + 99) to 250 ml in a calibrated flask. A 25-ml aliquot diluted to 100 ml is treated with 3 ml of 50 per cent tartaric acid solution, neutralised to litmus with aq. NH₃, followed by an additional 1 to 2 ml of aq. NH₃, and then treated with 0.4 g of murexide (1 + 500 parts of NaCl). After 3 to 4 min the pinkish-yellow soln. is titrated with 0.08 or 0.025 M EDTA to a stable pinkish-violet colour. Determination of magnesium or Zn. Although Ti gives a complex with Eriochrome black T, its formation is relatively so slow that Mg and Zn, which form complexes instantaneously, can be titrated with EDTA in the presence of this indicator in soln. of Ti. The sample is treated as described above up to the neutralisation with aq. NH₃. The soln. is then mixed with 3 ml of aq. NH₃, 1 ml of 10 per cent hydroxylamine soln. and 0.8 g of Eriochrome black T (1 + 200 parts of NaCl) and titrated for Mg or Zn with EDTA. Determination of manganese. The method is the same as for Mg or Zn except that the addition of hydroxylamine is omitted and 2 to 3 mg of ascorbic acid are added after the indicator. The content of Fe must not exceed 0.5 per cent. in the determination of Mg or Zn, and 1 per cent. in the determination of Mn.

G. S. SMITH

LFH

P-T Rova, E.I.

✓ 3635 Determination of titanium in titanium alloy by ultra-violet spectrophotometry / I. M. Dobkins and L. I. Petrova. *Zavod. Lab.*, 1927, 23 (4), 421-422. An application of the pyrogallol method is described. The sample (0.4 g) of titanium alloy is treated for 1 hr. in the cold with 50 ml of dil. HCl (1 + 4) and 5 ml of 20% NH₄Cl solution and then heated until reaction ceases. After addition of ~20 drops of conc. HNO₃, the soln. is boiled to remove oxides of N, then cooled and diluted to 100 ml. A portion (50 ml) is heated with 50 ml of conc. HCl, 10 ml of water and 5 to 5 g of H₂BO₃, then treated with 100 ml of hot 2% tannic acid, boiled for 10 to 15 min. and set aside overnight. The ppt. is filtered off on paper pulp and washed five or six times with 0.5% tannic acid in 2% HCl. It is then ignited and fused with 3 g of Na₂O, with a few drops

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of conc. H_2SO_4 to give a transparent melt. The cooled melt is dissolved in 26 ml of 5% ammonium oxalate soln, and the soln is diluted to 50 ml. Further dilution is necessary with contents of Ta > 1%. The dilute soln contains 12.5% of ammonium oxalate and an unknown amount of Ta. Aliquots of this dilute soln are taken and analyzed in the same way as the standards. These are obtained from a soln containing 0.25 mg of Ta in 1 ml. From 0.6 to 1.4 ml of this soln is diluted with the diluting soln to 5 ml, then 1 ml of water followed at once by 5 ml of 5 N HCl and 2 ml of 20% pyrogallol soln (prepared by dissolving 20 g of pyrogallol in 50 ml of water, 9 ml of conc. HCl and 1 ml of 2 M SnCl in conc. HCl, filtering and keeping in the dark for 10 days) are added with intermediate mixing. After 10 to 15 min, the extinction at 420 m μ is measured. Of the interfering elements, Sb, W, Mo and U are absent in aliquots of Ta, and Nb gives a complex having an extinction one forty-fifth that of Ta.

C. E. Surr 72

for MM
MT

5(2)
AUTHORS:

Dobkina, B. M., Petrova, Ye. I.

SOV/32-25-9-11, 52

TITLE:

Determination of Tantalum Following the Reaction With Pyrogallol
in the Presence of Tartaric Acid

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 9, pp 1064-1066 (USSR)

ABSTRACT:

The method mentioned in the title has been already applied as a variant of (Ref 1). In the present case, work is done under conditions which diminish the influence of titanium on the determination. The concentration of tartaric acid was chosen according to the thiocyanate method corresponding to the niobium determination, i.e. 8 mg/ml. The absorption curves of the complex compounds of Ta, Ti, and Nb (Fig 1), and the dependence of the optical density on the concentration of these elements (Fig 2) show that 5 - 35 μ /ml Ta_2O_5 may be determined with a maximum error of $\pm 3\%$. As the absorption varies directly as the concentration and the additivity of the optical properties of the pyrogallol complex compounds of Ta, Ti, and Nb, it is possible to determine Ta in the presence of larger quantities of Ti and Nb, allowing for appropriate corrections (Table 1).

Card 1/2

Determination of Tantalum Following the Reaction With SOV/32-25-9-11/5³
Pyrogallol in the Presence of Tartaric Acid

According to the present method, for which working procedure references and a course of analysis are given, a technical niobium hydroxide of the following composition was analyzed: 1 - 5% Ta₂O₅, 30 - 70% Nb₂O₅, 2 - 30% TiO₂, 0.5 - 10% Fe₂O₃, 0.5-10% SiO₂, and 2% Al₂O₃ approximately. The determination resulted without the prior separation of Ti, or Nb (Table 2, results of analyses). There are 2 figures, 2 tables, and 3 references, 1 of which is Soviet.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy institut redkikh i malykh metallov (State Scientific Research Institute of Rare and Minor Metals)

Card 2/2

CHERNIKHOV, Yu.A., DOBKINA, B.M., PETROVA, Ye.I.

Determination of zirconium from the reaction with pyrocatechol violet in titanium and its alloys. Zav.lab. 26 no.5:529-531 '60.
(MIRA 13:7)
(Zirconium--Analysis) (Titanium--Analysis)

L 52280-65 EWT(m)/EPF(n)-2/EWG(m)/EPR/EWP(t)/EWP(b) Ps-1/Pu-1 IJP(c)
JD/JG

ACCESSION NR: AT5012870

UR/2513/65/015/000/0080/0087 32

AUTHOR: Norkina, M.A., Petrova, Ye. I., Cherkashina, T.V., Chernikhov, Yu. A. 31

TITLE: Concentration of impurities in the analysis of refractory metals (titanium, tantalum, niobium, and vanadium) 31

SOURCE: AN SSSR. Komissiya po analiticheskoy khimii. Trudy, v. 15, 1985. Metody kontsentrirovaniya veshchestv v analiticheskoy khimii (Methods of concentrating substances in analytical chemistry), 80-87 61

TOPIC TAGS: refractory metal analysis, titanium analysis, tantalum analysis, niobium analysis, vanadium analysis, impurity concentration, spectroscopic analysis, diethyldithiocarbamate 7

ABSTRACT: To concentrate microquantities of impurities in the spectral analysis of refractory metals, the authors employed group extraction. In the case of Ti, Ta, and Nb, the impurities present in these elements were dissolved in a mixture of hydrofluoric and nitric acid, then extracted with sodium diethyldithiocarbamate. At pH 6.0-6.5 in the presence of fluoride ions and tartaric acid, 19 elements were extracted, including 14 to the extent of 85% or over: Cu, Ag, Au(III), Mn(II), Pb, Zn, Fe(III), Cd, Ni, Co, In, Tl(I), Tl(III), Bi(III), and Ba(IV). Ga, V(IV), Pt(IV), and Sn(IV) were extracted to the extent Card 1/2

L 52280-65

ACCESSION NR: AT5012670

of 50% or less, and Sb was not extracted because it was in the pentavalent state. Carbon tetrachloride or chloroform can be used for the extraction of the diethyldithiocarbamates. In the case of vanadium, the latter was converted to the pre-vaalent state, and extraction with diethyldithiocarbamate separated 13 elements: Cu, Ag, Au(III), Mn(II), Pb, Zn, Fe(III), Cd, Ni, Co, In, Tl(II), Tl(III), and Bi. Ga, Pt(IV), Sn(IV), Sb(V), and Se(IV) were not extrabted. The concentrates obtained were analyzed photographically with a medium-dispersion quartz spectrograph (ISP-22 or ISP-28). Another successful method of concentration applicable to tantalum, niobium, and vanadium consists of extracting the base element (Ta with cyclohexanone from 0.4 M HF and 1.2 M H₂SO₄; Nb with amyl acetate from 11 N HCl; V with tributyl phosphate from 6 N HCl). The analytical procedure employed is described in full. Orig. art. has: 1 table and 1 formula.

ASSOCIATION: Komissiya po analiticheskoy khimii, AN SSSR (Commission on Analytical Chemistry, AN SSSR)

SUBMITTED: 00**ENCL:** 00**SUB CODE:** IC, MM**NO REF SOV:** 003**OTHER:** 0043
dub 2/2

PAL'CHUN, V.T., PETROVA, Ye.I.

Prevention of new rheumatic attacks within the immediate stage
following tonsillectomy. Zhur. ush. nos. i gorl. bol. 23.
(MLA 16:2)
no.2:61-66 Mr-Ap'c3.

1. Iz kliniki bolezney ucha, ggorla, nosa (direktor - ~~doystvi-~~
tel'nyy chlen AMN SSSR, zasluzhennyy deyatel' nauki prof. B.S.
Preobrazhenskiy) iachebno-ro fakul'teta 2-go Moskovskogo medi-
tsinskogo instituta imeni N.I.Pirogova.

PETROVA, Ye.I.

Refractometric study of alkaline earth metal fluorides in aqueous
solutions. Zhur.neorg.khim. 7 no.4:935-937 Ap '62.
(MIRA 15:4)
(Alkaline earth fluorides) (Refractometry)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610007-0

PAROV, Yuliya, Yuriyevna, 1911.

September 1940

Differential treatment, mental illness, Soviet Union, Russia.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610007-0"

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610007-0

RECORDED BY TYPE RECEIVED

Information contained herein is unclassified except for the preparation of
exhibit for the trial of James Earl Ray.

(MIRA P:R

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610007-0"

YAKOVLEV, A.M.; KRASNOPEVTSEVA, O.S.; PUTERMAN-LIPPERT, F.E.;
PETROVA, Ye.K.

Bacteremia as one of the pathogenetic factors in burn disease.
Khirurgiia 38 no.10:34-40 O '62. (MIRA 15:12)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.
Kirova.
(BURNS AND SCALDS) (BACTEREMIA)

VOROB'YEV, A.A.; VASIL'YEV, N.N.; SHEVLEV, V.N.; VOKONOVA, Z.A.; PETROVA,
Ye.K.; BAZHENOVA, S.A.; ANDROSHCHIK, S.V.

Study of botulin anatoxins. Report No.: Type B botulin anatoxin.
Zhur. mikrobiol., epid. i immun. 48 no.9: 87-92. S'63.
(MIRA 17:5)

MARKIN, A.P.; LUKIN, Ye.P.; PETROVA, Ye.K.; VOROB'YEV, A.A.

Study of botulin anatoxins. Report No. 3: Botulin anatoxin type.
Zhur.mikrobiol., epid.i immmun. 32 no.12:96-99 D '61.

(MIRA 15:11)

(BOTULISM) (TOXINS AND ANTITOXINS)

BOKUCHAVA, M.A.; POPOV, V.R.; PETROVA, Y.K.

Transformation of tanning substances in the production of green
brick-tea. Biekhim.chain.proizv.no.6:163-169 '50. (MLRA 9:7)
(Tannins) (Tea)

MORACHEVSKIY, Yu.V., red.; PETROVA, Ye.M., red.

[Methods of analysis of brines and salts] Metody analiza
rassolov i solei. Izd.2., perer. i dop. Moskva, Khimija,
1964. 403 p. (MIRA 17:11)

1. Leningrad. Vsesoyuznyy nauchno-issledovatel'skiy institut
galurgii.

GIRAMOV, N.N.; KONOVALOV, N.S.; TEPPOV, Yu.N., red.; PETROVA, Ye.M., red.

Paleohydrogeochemistry of the northern part of Central Siberia
in the Late Paleozoic and Mesozoic.) Paleogidrokhimiia severa
Srednei Sibiri v pozdnem paleozoze i mezozooe. Moskva, Nedra,
1965. 119 p. (Leningrad. Nauchno-issledovatel'skiy institut
geologii Arktiki. Trudy, vol. 142).

(MFA 18:8)

MORACHEVSKIY, Yu.V., red.; PETROVA, Ye.M., nauchn. secr., red.

[Methods of analyzing brines and salts] Metody analiza
rassolov i solei. izd.3., Izpr. 2-ye red. Yu.V.Morachev-
skogo i E.M.Petrovoi. Moskva, Khimiia, 1965. 403 p.
(MIRA 19:1)

1. Leningrad. Vsesoyuznyy nauchno-issledovatel'skiy in-
titut galurgii. 2. Vsesoyuznyy nauchno-issledovatel'skiy
institut galurgii, Leningrad (for Petrova).

YELANSKIY, N.N., prof.; PETROVA, Ye.M.

Clinical investigations of bactericidal enamels for medical
furniture. Khirurgiia 36 no.11:131-132 N '60.

(MIRA 13:12)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof.
N.N. Yelanskij) I Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M. Sechenova.

(PAINT) (ANTISEPTICS)

(HOSPITALS—EQUIPMENT AND SUPPLIES)

YMLANSKIY, N.N.; PETROVA, Ye.M.

Focal administration of antibiotics [with summary in French, p.64]
Antibiotiki 1 no.4:48-49 Jl-Ag '56. (MLRA 9:11)

1. I Minskii ordin Lenina meditsinskiy institut imeni I.M. Sechenova.

(ANTIBIOTICS, admin.
focal)

PETROVA, Ye.M.

Using GAK-3M gravimeters. Razved. i prom. geofiz. no.16:52-57 '56.
(Gravimeter) (MLRA 10:8)

PETROVA, Ye. M.; YELANSKIY, N.I. (Prof.)

"Various Methods of Administration of Biomycin in Surgical Practice,"

p. 369 Ministry of Health USSR Proceedings of the Second All-Union Conference on Antibiotics, 31 May - 1 June 1957. p. 401, Moscow, Medgiz, 1957.

CHISTOVA, M.A.; PETROVA, Ye.M.

Use of colimycin in a surgical clinic; preliminary report.
Antibiotiki, 2 no.2:57-60 Mr-Ap '57 (MLRA 10:5)

1. Fakul'tetskaya khirurgicheskaya klinika imeni N.N. Burdenko
(zav.-prof. N.N. Yelanskiy) I Moskovskogo ordena Lenina
meditsinskogo instituta.

(ANTIBIOTICS, ther. use
colimycin in surg.)
(SURGERY, OPERATIVE
colimycin ther. in)

PETROVA, YE. M.

Biological Chemistry

Dissertation: "The Interaction of Brines of the Carbonate Type With Solutions of Calcium and Magnesium Salts." Cand Chem Sci, Inst of General and Inorganic Chemistry imeni N. S. Kurnakov, Acad Sci USSR, Oct-Dec 1953. (Vestnik Akademii Nauk, Moscow, Mar 54)

SO: SUM 213, 20 Sept 1954

PETROVA, Ye. M. and YELANSKIY, N. N.

"Use of biomycin in surgery," appears in TABCON of "Biomycin (Experimental Study and Clinical use of Biomycin)", edited by A. F. Bilibin, Moscow 1954.

SO: Translation-417, 21 Jun 1955.

PETROVA, Ye.M.

VESELOV, K.Ye.; LUKAVCHENKO, P.I.; PETROVA, Ye.M.; LOZINSKAYA, A.M.,
redaktor; KOVALEVA, A.A., vedushchiy redaktor; TROFIMOV, A.V.,
tekhnicheskiy redaktor

[GAK-3M astatized quartz gravimeter; theory, design and use]
Kvartsevyi astazirovannyi gravimetr GAK-3M; teoriia ustroistvo i
sposob primenения. Moskva, Gos. nauchno-tekh. izd-vo neftianoi i
gorno-toplivnoi lit-ry, 1954. 36 p. [Microfilm] (MIRA 8:2)

1. Moscow. Nauchno-issledovatel'skiy institut geofizicheskikh metodov
razvedki.
(Gravimeters)

PETROVA, Yelizaveta Nikolayevna; BODYAZHINA, V.I., red.

[Histological diagnosis of diseases of the uterus] Gisto-
logicheskaiia diagnostika zabolеваний матки. 2. izd., dop.
Moskva, Meditisa, 1964. 169 p. (MIRA 17:11)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610007-0

APPENDIX A

that borders the introduction of a standardization
29 re 8-40-41 '64
(MIFR 18 10)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610007-0"

PETROVA, Ye.N.

From where will a million come. Standardizatsia 2^a no.6:
44-45 Je '65. (MIA 18:12)

PETROVA, Ye. N.

"Monoalkyl-Aminoalkyl Esters and Alkyloxyalkylamides of Naphthalene Carboxylic Acids." Thesis for degree of Cand. Chemical Sci. Sub. 26 Sep 49, All-Union Sci Res Chemical-Pharmaceutical Inst imeni Sergo Ordzhonikidze.

Summary 82, 18 Lec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Yechernaya Moskva, Jan-Dec 1949.

PETROVA Ye. N.

Dec. '61

TSC /Chemistry - Pharmaceuticals

"(N-Alkyl-N-Hydroxyethyl)-Amides of 1-(S)-5-Nitro-1-naphthoic Acids," B. I. Luts, V. V. Krasnaya,
Ye. N. Petrova, All-Union Sci Res Chemicophr Inst imeni S. Ordzonikidze

"Zhur Obshch Khim" Vol XXI, No 12, pp 2174-2178

Prepd (N-butyl-N-hydroxyethyl)- and (N-isobutyl-N-hydroxyethyl)-amides of 1-nitro-1-naphthoic acid and (N-isobutyl-N-hydroxyethyl)-amide of 5-nitro-1-naphthoic acid. Carried out amide-ester rearrangement with certain of these compds.

PA 19LT

GOFMAN, G.Ye., prof.; ZHELEZNOV, B.I., kand. med. nauk; KLENITSKIY, Ya.S., prof.; LEL'CHUK, P.Ya., prof.; MARKINA, V.P., dots.; NOVIKOVA, L.A., prof.; PETROVA, Ye.N., prof.; POKRCVSKIY, V.A., prof.; FRINOVSKIY, V.S., prof.; PERSIANINOV, L.S., prof., otv. red.; IL'IN, I.V., red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Multivolume manual on obstetrics and gynecology] Mnogo-tomnoe rukovodstvo po akusherstvu i ginekologii. Moskva, Medgiz. Vol.5.[Tumors of female genitalia] Opukholi zhen-skikh polovykh organov. 1962. 314 p. (MIRA 16:8)

i. Chlen-korrespondent AMN SSSR (for Novikova Persianinov).
(GENERATIVE ORGANS, FEMALE--TUMORS)

PETROVA, E. N.

Isomerization of polymethylene hydrocarbons under the influence of aluminum chloride. XII. Optimum conditions of the isomerization of alkylcyclopentanes. M.B. Turova-Pollak, N. P. Egorova, and E.N. Petrova (Moscow State Univ.). J. Gen. Chem. (U.S.S.R.) 16, 825-8 (1946); cf. C.A. 39, 4060³. - Ethyl-propyl-, and butylcyclopentanes with 1/3 molar amt. of AlCl_3 evolved heat spontaneously. In all cases isomerization into cyclohexane derivs. occurred (97.8, 86.6, and 68.4%, resp.). The latter dss were identified by sulfonation of the dehydrogenated products, followed by hydrolysis of the sulfonic acids; the results indicated isomerization to methylcyclohexane, dimethylcyclohexane, and trimethylcyclohexane, resp. When the reaction mixts. were heated to the b.p. of the starting hydrocarbons, the yields rose to 100, 91.8, and 80% resp. The low yield in the last case was apparently due to incipient cracking of the hydrocarbon at the b.p. (160°). XIII. Isomerization of ethylcycloheptane. M.B. Turova-Pollak and E.N. Petrova (Moscow State Univ.). Ibid 829-34.- It was shown that in the course of the interaction of ethylcycloheptane (I) with AlCl_3 (with spontaneous heat evolution) there takes place an isomerization into derivs. of cyclohexane to the extent of 18-20%. The hydrocarbon- AlCl_3 mol. ratio was 3:1, max. temp. 57°; no gas evolution was observed. The reaction products b. 147-60° and ranged in mp from 1.4330 to 1.4370; thus, although the b.ps. were higher than those known for the isomeric trimethylcyclohexanes, the values of n were within the exptl. error range. The products were again subjected to treatment with AlCl_3 with heating 18 hrs. to 140-5°. The bulk of the product now b. 138-46°, n²⁰ 1.4278-1.4300, consts. very close to those of the isomeric trimethylcyclohexanes. The products were dehydrogenated over Pt-charcoal at

PETROVA, Ye. N.

USSR/Chemistry - Anesthetics

Feb 52

"Anesthetics of the Naphthaline Series. VII. Monoalkylaminoalkyl Esters of Certain Naphthalinecarboxylic Acids," S. I. Sergiyevskaya, Ye. N. Petrova, All-Union Sci Res Chem-Phar Inst imeni Ordzhonikidze

"Zhur Obshch Khim" Vol XXII, No 2, pp 328-333

Following up earlier original synthesis of highly effective anesthetics (dialkylaminoalkyl esters of 4-amino-1-naphthoic acid), prep'd monoalkylaminoethyl esters of 4(5)-nitro- and 4(5)-amino-1-naphthoic and β -(naphthyl-1)-acrylic acids.

209T31

GRINSHPUN, S.D.; OTLEV, I.A.; SHIRYAYEV, Yu.D.; PETROVA, Ye.N.

Method for manufacturing piezothermoplastics. Der.prom. 9 no.11:6-7
■ '60.
(MIRA 13:12)

1. Tsentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy
obrabotki dereva.

(Plastics)

PETROVA, Ye. N.

PETROVA, Ye. N.; POLILOV, N.A.; KOSHELEV, V.I.

New technique for making scalpels. Med.prom. 11 no.8:12-19 Ag '57.
(MIRA 10:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya i Gor'kovskiy mediko-instrumental'-
nyy zavod imeni V.I.Lenina.

(SURGICAL INSTRUMENTS AND APPARATUS)

137-58-4-7149

Translation from: Referativnyy zhurnal Metallurgiya 1958 Nr 5 p 120 (USSR)

AUTHORS: Zvorono, B. P., ~~Petrova, Yev.~~ Polilev, N. A., Vaynet, Ye
L. Samsonenko, G. T.

TITLE: Designs of Medical Instruments Suitable for Production by Cold
Extrusion (Konstruktsii meditsinskikh instrumentov do-pus-
kayushchikh kholodnoye pressovan ye)

PERIODICAL: Materialy po obmenu otsenok nauchn. dokt.zh. i med. promt-
stsi. 1957, Nr 4 (23) pp 90-106

ABSTRACT: The manufacture of medical instruments from blanks in the
form of bodies of revolution produced by cold reducing, cold
rolling, or machined by template on a lathe is performed on ordi-
nary presses using open plates, with reduction by 50-60 percent
in a single operation in the cold condition under unit pressures of
12-15 t/cm² offering the following advantages: replacement of
the laborious operations of hand roughing and filing by machine
operation, production of a high degree of surface finish without
burrs or having no more than a thin flash saving of metal, em-
ployment of universal equipment, use of simple and cheap dies
repair of which may be done on a flat grinder. When high degrees

Card 1/2